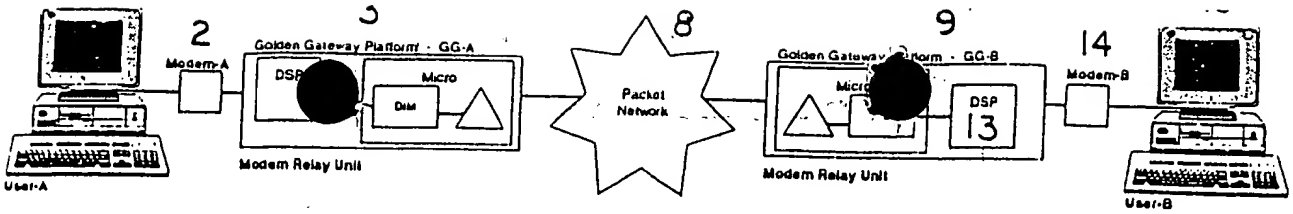


FIGURE 1

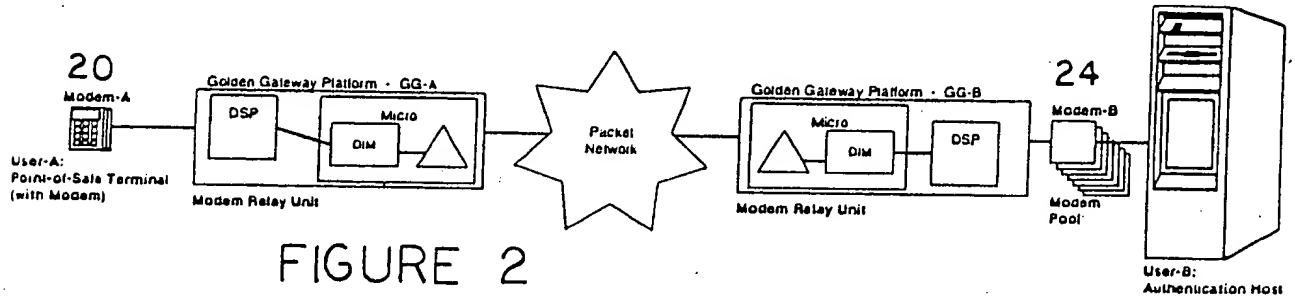


FIGURE 2

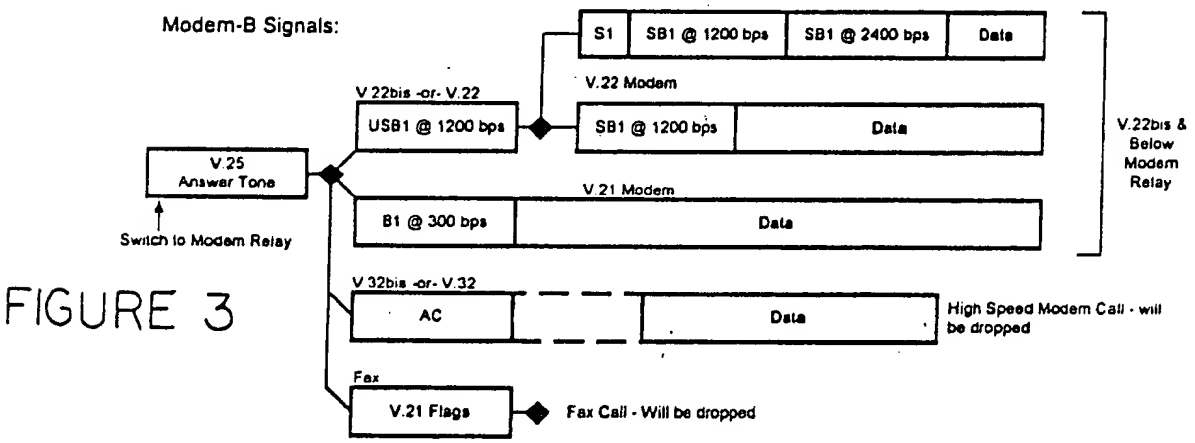


FIGURE 3

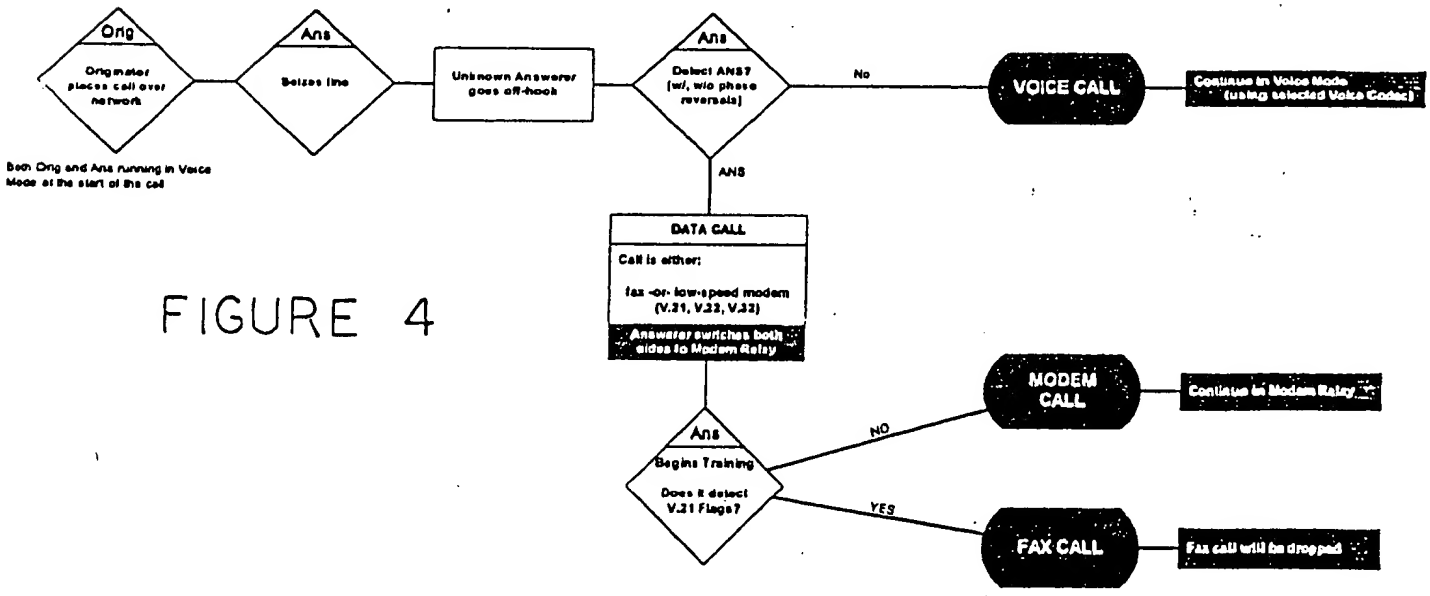


FIGURE 4

09505-1-US-00

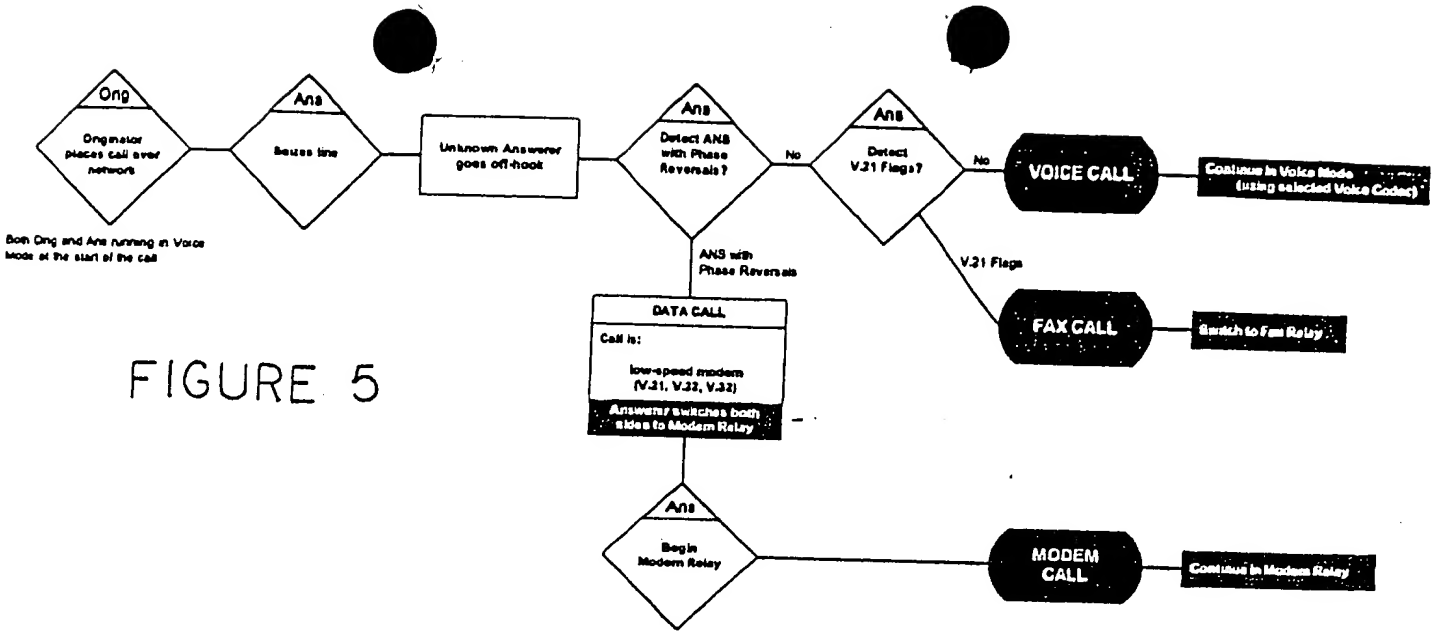


FIGURE 5

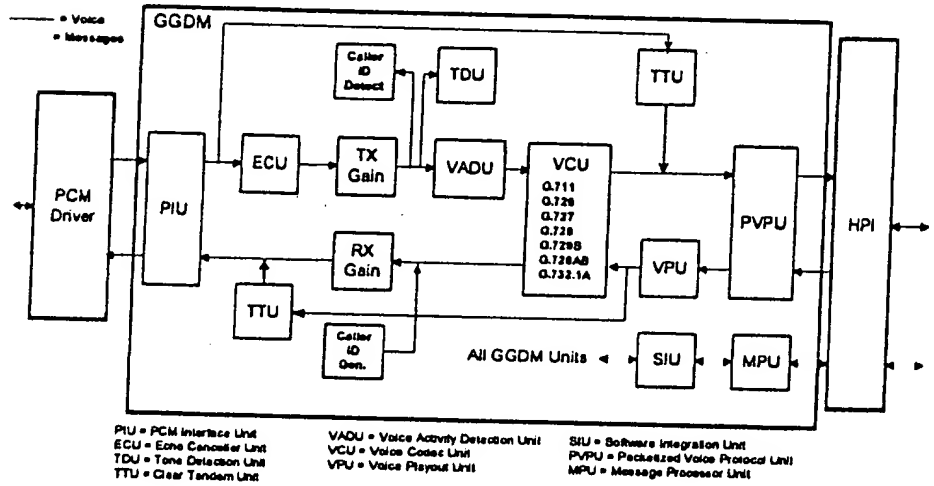


FIGURE 6

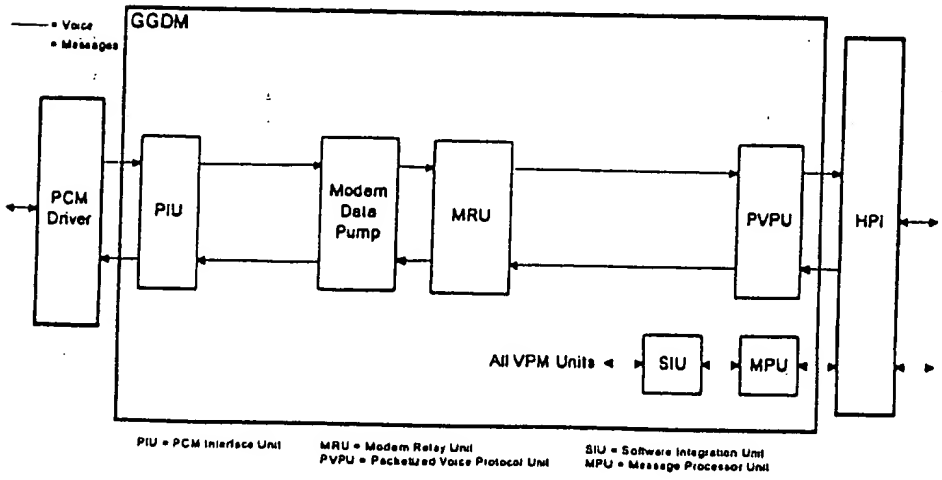


FIGURE 7

09525900

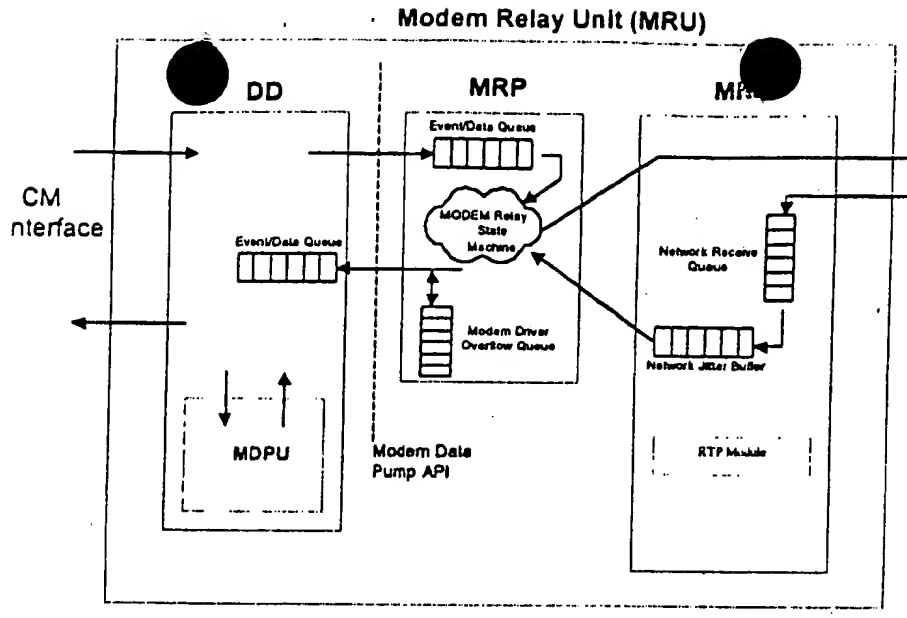


FIGURE 8

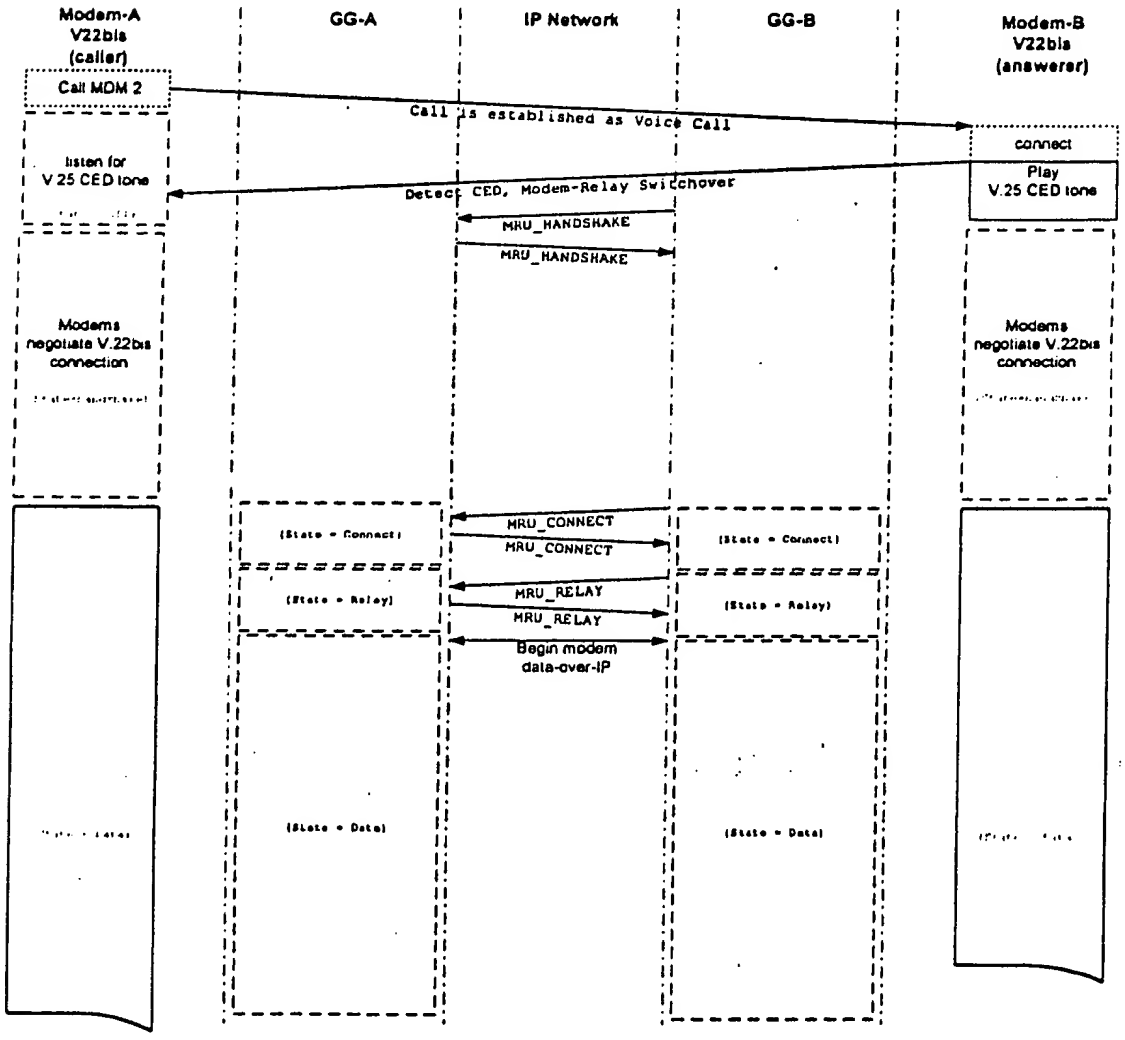


FIGURE 9

09525500 : 042500

FIGURE 10

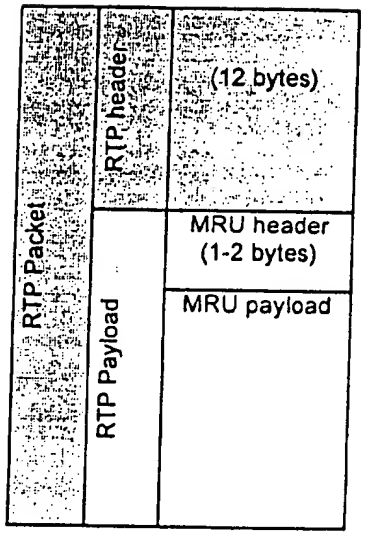
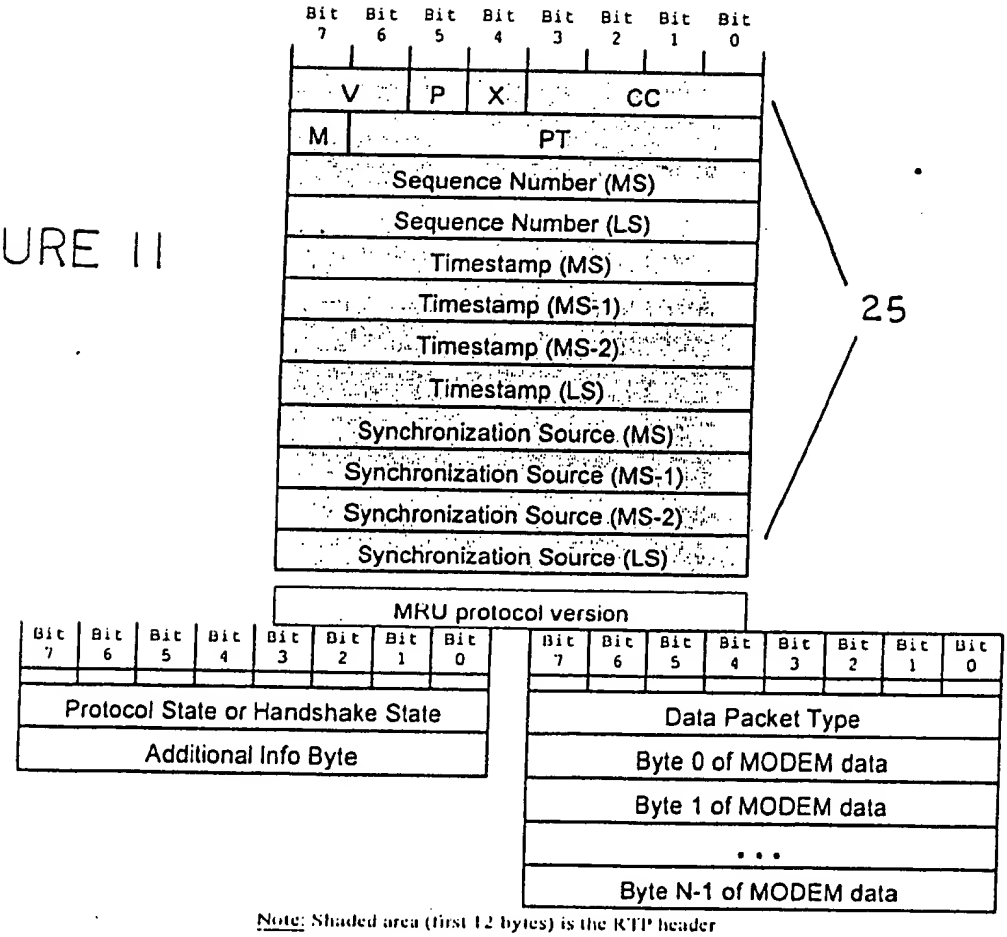


FIGURE 11



Note: Shaded area (first 12 bytes) is the RTP header

FIGURE 12

Modem Relay Protocol State Packets

Protocol State	Description
Offline	Idle state
Carrier loss	Silence on the analog line, carrier loss
Handshake	Modem data pumps will begin handshaking process
Connect	Local handshake session is passed and ready for Modem Relay
Relay	Modem Relay takes place

Modem Handshake State Packets

Handshake State	Description
V25	V.25 answer tone is detected on the local analog line
V25PR	V.25 answer tone with phase reversals is detected on the local analog line
V21	V.21 B1 signal is detected on the local analog line
USB1	V.22 USB1 signal is detected on the local analog line
S1	V.22*bis* S1 signal is detected on the local analog line
SB1_1200	V.22*bis* SB1 signal @1200 is detected on the local analog line
SB1_2400	V.22*bis* SB1 signal @2400 is detected on the local analog line

Modem Data Packets

Data Type	Description
V21	V.21 data @ 300 bps
V22	V.22 data @ 1200 bps
V22BIS	V.22*bis* data @ 2400 bps

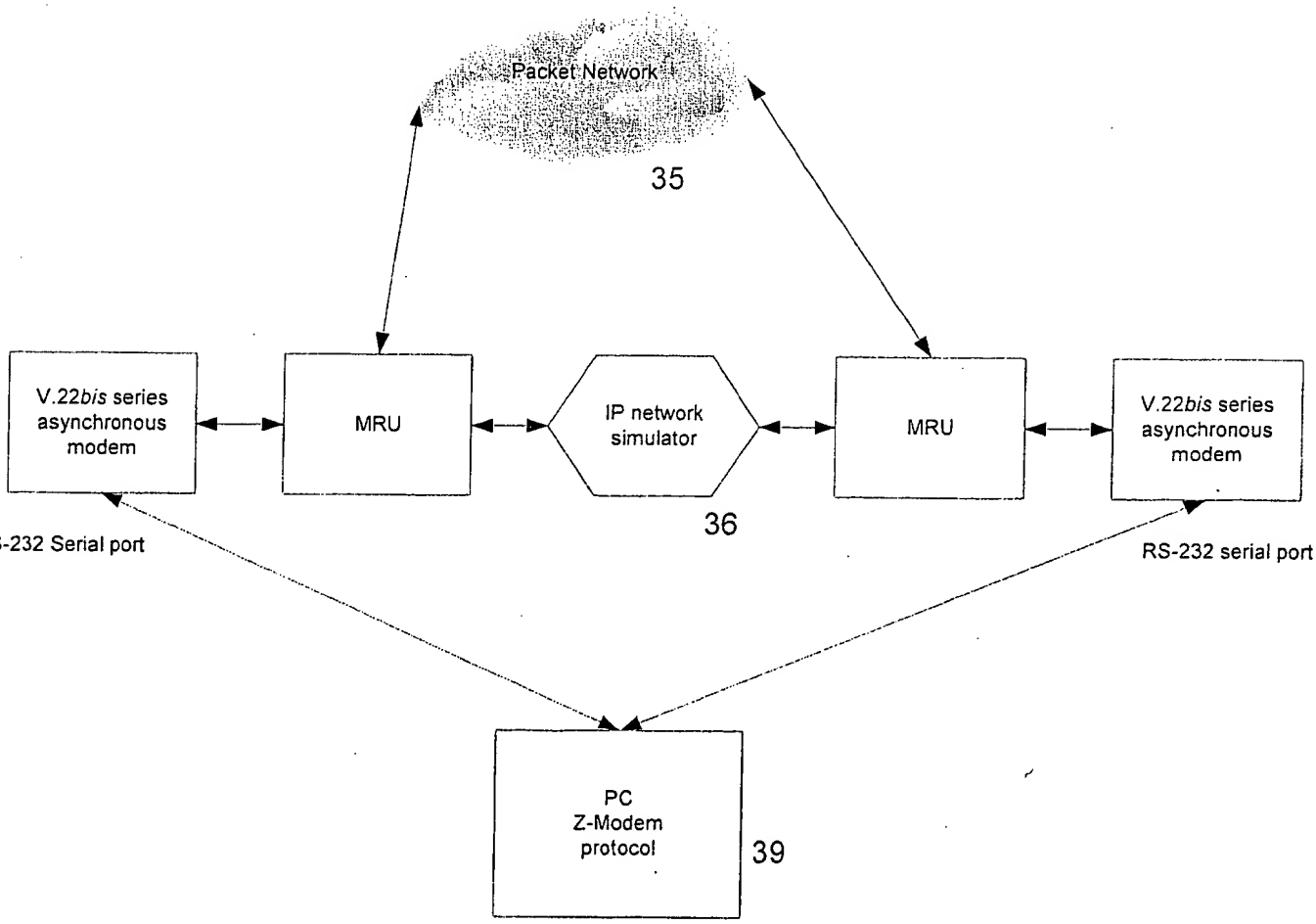

Packet Network
35
V.22bis series asynchronous modem
MRU
IP network simulator
36
MRU
V.22bis series asynchronous modem
RS-232 Serial port
RS-232 serial port
PC
Z-Modem
protocol
39

Figure 13

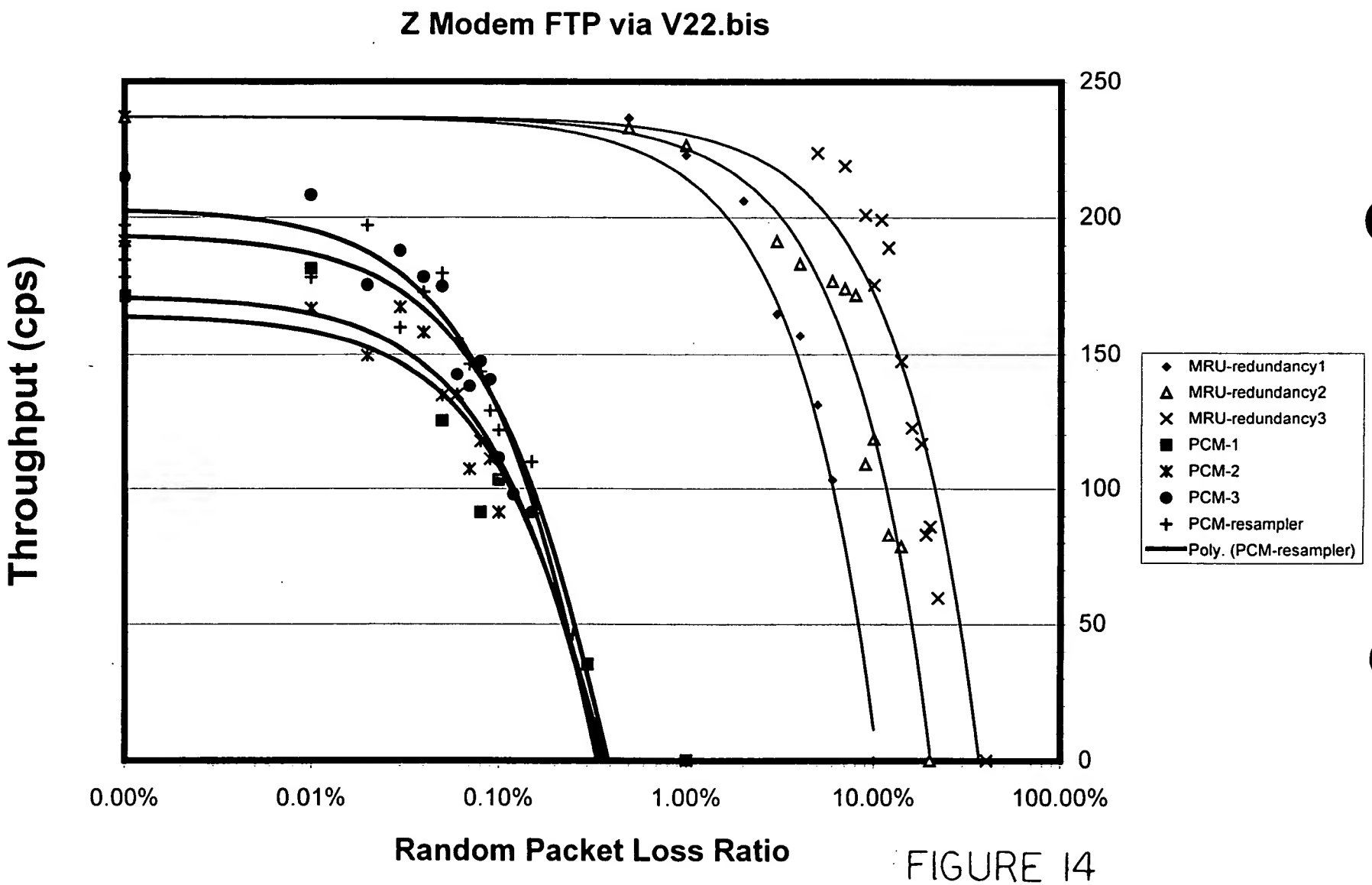

Z Modem FTP via V22.bis
Throughput (cps)
250
200
150
100
50
0
0.00%
0.01%
0.10%
1.00%
10.00%
100.00%
Random Packet Loss Ratio
MRU-redundancy1
MRU-redundancy2
MRU-redundancy3
PCM-1
PCM-2
PCM-3
PCM-resampler
Poly. (PCM-resampler)

FIGURE 14